

Serial Number: 09/813,718

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: 2
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length" field accordingly (error due to a PatonIn bug). Sequences corrected: _____
- ☐ Other: _____

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form. 2/1/95

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/813,718

DATE: 04/11/2001
 TIME: 17:38:24

Input Set : A:\Pto.da
 Output Set: N:\CRF3\04112001\I813718.raw

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3 <110> APPLICANT: Schimmel, Paul
4   Wakasugi, Keisuke
6 <120> TITLE OF INVENTION: Human Aminoacyl-tRNA Synthetase Polypeptides Useful For
7   The Regulation of Angiogenesis
9 <130> FILE REFERENCE: 00-221
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/813,718
C--> 12 <141> CURRENT FILING DATE: 2001-03-21
14 <160> NUMBER OF SEQ ID NOS: 58
16 <170> SOFTWARE: PatentIn Ver. 2.0
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 5174
20 <212> TYPE: DNA
21 <213> ORGANISM: Artificial Sequence
23 <220> FEATURE:
24 <221> NAME/KEY: CDS
25 <222> LOCATION: (3428)..(5035)
27 <220> FEATURE:
28 <223> OTHER INFORMATION: Description of Artificial Sequence: human
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DRAW SEQUENCE LISTING

DATE: 04/11/2001

PATENT APPLICATION: US/09/813,718

TIME: 17:38:24

Input Set : A:\Pto.da

Output Set: N:\CRF3\04112001\I813718.raw

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94 agtggctgct gccagtggcg ataagtcgtg tcttaccggg ttggactcaa gacgatagtt 1920
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147 Met Gly Asp Ala Pro Ser Pro Glu Glu Lys Leu His Leu Ile
148 1 5 10
150 acc cgg aac ctg cag gag gtt ctg ggg gaa gag aag ctg aag gag ata 3517
151 Thr Arg Asn Leu Gln Glu Val Leu Gly Glu Glu Lys Leu Lys Glu Ile
152 15 20 25 30
154 ctg aag gag cgg gaa ctt aaa att tac tgg gga acg gca acc acg ggc 3565
155 Leu Lys Glu Arg Glu Leu Lys Ile Tyr Trp Gly Thr Ala Thr Thr Gly
156 35 40 45
158 aaa cca cat gtg gct tac ttt gtg ccc atg tca aag att gca gac ttc 3613
159 Lys Pro His Val Ala Tyr Phe Val Pro Met Ser Lys Ile Ala Asp Phe
160 50 55 60
162 tta aag gca ggg tgt gag gta aca att ctg ttt gcg gac ctc cac gca 3661
163 Leu Lys Ala Gly Cys Glu Val Thr Ile Leu Phe Ala Asp Leu His Ala
164 65 70 75
166 tac ctg gat aac atg aaa gcc cca tgg gaa ctt cta gaa ctc cga gtc 3709
167 Tyr Leu Asp Asn Met Lys Ala Pro Trp Glu Leu Leu Glu Leu Arg Val
168 80 85 90
170 agt tac tat gag aat gtg atc aaa gca atg ctg gag agc att ggt gtg 3757

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 PATENT APPLICATION: US/09/813,718

DATE: 04/11/2001
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Input Set : A:\Pto.da

Output Set: N:\CRF3\04112001\I813718.raw

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174 ccc ttg gag aag ctc aag ttc atc aaa ggc act gat tac cag ctc agc 3805
175 Pro Leu Glu Lys Leu Lys Phe Ile Lys Gly Thr Asp Tyr Gln Leu Ser
176 115 120 125
178 aaa gag tac aca cta gat gtg tac aga ctc tcc tcc gtg gtc aca cag 3853
179 Lys Glu Tyr Thr Leu Asp Val Tyr Arg Leu Ser Ser Val Val Thr Gln
180 130 135 140
182 cac gat tcc aag aag gct gga gct gag gtg gta aag cag gtg gag cac 3901
183 His Asp Ser Lys Lys Ala Gly Ala Glu Val Val Lys Gln Val Glu His
184 145 150 155
186 cct ttg ctg agt ggc ctc tta tac ccc gga ctg cag gct ttg gat gaa 3949
187 Pro Leu Leu Ser Gly Leu Leu Tyr Pro Gly Leu Gln Ala Leu Asp Glu
188 160 165 170
190 gag tat tta aaa gta gat gcc caa ttt gga ggc att gat cag aga aag 3997
191 Glu Tyr Leu Lys Val Asp Ala Gln Phe Gly Gly Ile Asp Gln Arg Lys
192 175 180 185 190
194 att ttc acc ttt gca gag aag tac ctc cct gca ctt ggc tat tca aaa 4045
195 Ile Phe Thr Phe Ala Glu Lys Tyr Leu Pro Ala Leu Gly Tyr Ser Lys
196 195 200 205
198 cgg gtc cat ctg atg aat cct atg gtt cca gga tta aca ggc agc aaa 4093
199 Arg Val His Leu Met Asn Pro Met Val Pro Gly Leu Thr Gly Ser Lys
200 210 215 220
202 atg agc tct tca gaa gag gag tcc aag att gat ctc ctt gat cgg aag 4141
203 Met Ser Ser Ser Glu Glu Glu Ser Lys Ile Asp Leu Leu Asp Arg Lys
204 225 230 235
206 gag gat gtg aag aaa aaa ctg aag aag gcc ttc tgt gag cca gga aat 4189
207 Glu Asp Val Lys Lys Lys Leu Lys Lys Ala Phe Cys Glu Pro Gly Asn
208 240 245 250
210 gtg gag aac aat ggg gtt ctg tcc ttc atc aag cat gtc ctt ttt ccc 4237
211 Val Glu Asn Asn Gly Val Leu Ser Phe Ile Lys His Val Leu Phe Pro
212 255 260 265 270
214 ctt aag tcc gag ttt gtg atc cta cga gat gag aaa tgg ggt gga aac 4285
215 Leu Lys Ser Glu Phe Val Ile Leu Arg Asp Glu Lys Trp Gly Gly Asn
216 275 280 285
218 aaa acc tac aca gct tac gtg gac ctg gaa aag gac ttt gct gct gag 4333
219 Lys Thr Tyr Thr Ala Tyr Val Asp Leu Glu Lys Asp Phe Ala Ala Glu
220 290 295 300
222 gtt gta cat cct gga gac ctg aag aat tct gtt gaa gtc gca ctg aac 4381
223 Val Val His Pro Gly Asp Leu Lys Asn Ser Val Glu Val Ala Leu Asn
224 305 310 315
226 aag ttg ctg gat cca atc cgg gaa aag ttt aat acc cct gcc ctg aaa 4429
227 Lys Leu Leu Asp Pro Ile Arg Glu Lys Phe Asn Thr Pro Ala Leu Lys
228 320 325 330
230 aaa ctg gcc agc gct gcc tac cca gat ccc tca aag cag aag cca atg 4477
231 Lys Leu Ala Ser Ala Ala Tyr Pro Asp Pro Ser Lys Gln Lys Pro Met
232 335 340 345 350
234 gcc aaa ggc cct gcc aag aat tca gaa cca gag gag gtc atc cca tcc 4525
235 Ala Lys Gly Pro Ala Lys Asn Ser Glu Pro Glu Glu Val Ile Pro Ser

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RAW SEQUENCE LISTING

DATE: 04/11/2001

PATENT APPLICATION: US/09/813,718

TIME: 17:38:24

Input Set : A:\Pto.da

Output Set: N:\CRF3\04112001\I813718.raw

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240          370          375          380
242 gat gca gac agc ctg tat gta gag aag att gac gtg ggg gaa gct gaa 4621
243 Asp Ala Asp Ser Leu Tyr Val Glu Lys Ile Asp Val Gly Glu Ala Glu
244          385          390          395
246 cca cgg act gtg gtg agc ggc ctg gta cag ttc gtg ccc aag gag gaa 4669
247 Pro Arg Thr Val Val Ser Gly Leu Val Gln Phe Val Pro Lys Glu Glu
248          400          405          410
250 ctg cag gac agg ctg gta gtg gtg ctg tgc aac ctg aaa ccc cag aag 4717
251 Leu Gln Asp Arg Leu Val Val Val Leu Cys Asn Leu Lys Pro Gln Lys
252 415          420          425          430
254 atg aga gga gtc gag tcc caa ggc atg ctt ctg tgt gct tct ata gaa 4765
255 Met Arg Gly Val Glu Ser Gln Gly Met Leu Leu Cys Ala Ser Ile Glu
256          435          440          445
258 ggg ata aac cgc cag gtt gaa cct ctg gac cct ccg gca ggc tct gct 4813
259 Gly Ile Asn Arg Gln Val Glu Pro Leu Asp Pro Pro Ala Gly Ser Ala
260          450          455          460
262 cct ggt gag cac gtg ttt gtg aag ggc tat gaa aag ggc caa cca gat 4861
263 Pro Gly Glu His Val Phe Val Lys Gly Tyr Glu Lys Gly Gln Pro Asp
264          465          470          475
266 gag gag ctc aag ccc aag aag aaa gtc ttc gag aag ttg cag gct gac 4909
267 Glu Glu Leu Lys Pro Lys Lys Lys Val Phe Glu Lys Leu Gln Ala Asp
268          480          485          490
270 ttc aaa att tct gag gag tgc atc gca cag tgg aag caa acc aac ttc 4957
271 Phe Lys Ile Ser Glu Glu Cys Ile Ala Gln Trp Lys Gln Thr Asn Phe
272 495          500          505          510
274 atg acc aag ctg ggc tcc att tcc tgt aaa tcg ctg aaa ggg ggg aac 5005
275 Met Thr Lys Leu Gly Ser Ile Ser Cys Lys Ser Leu Lys Gly Gly Asn
276          515          520          525
278 att agc ctc gag cac cac cac cac cac tgagatccgg ctgctaacaa 5055
279 Ile Ser Leu Glu His His His His His His
280          530          535
282 agcccgaaag gaagctgagt tggtctgtgc caccgtgag caataactag cataaccct 5115
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301 Asn Leu Gln Glu Val Leu Gly Glu Glu Lys Leu Lys Glu Ile Leu Lys
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304 Glu Arg Glu Leu Lys Ile Tyr Trp Gly Thr Ala Thr Thr Gly Lys Pro

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RAW SEQUENCE LISTING

DATE: 04/11/2001

PATENT APPLICATION: US/09/813,718

TIME: 17:38:24

Input Set : A:\Pto.da

Output Set: N:\CRF3\04112001\I813718.raw

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308          50          55          60
310 Ala Gly Cys Glu Val Thr Ile Leu Phe Ala Asp Leu His Ala Tyr Leu
311 65          70          75          80
313 Asp Asn Met Lys Ala Pro Trp Glu Leu Leu Glu Leu Arg Val Ser Tyr
314          85          90          95
316 Tyr Glu Asn Val Ile Lys Ala Met Leu Glu Ser Ile Gly Val Pro Leu
317          100          105          110
319 Glu Lys Leu Lys Phe Ile Lys Gly Thr Asp Tyr Gln Leu Ser Lys Glu
320          115          120          125
322 Tyr Thr Leu Asp Val Tyr Arg Leu Ser Ser Val Val Thr Gln His Asp
323          130          135          140
325 Ser Lys Lys Ala Gly Ala Glu Val Val Lys Gln Val Glu His Pro Leu
326 145          150          155          160
328 Leu Ser Gly Leu Leu Tyr Pro Gly Leu Gln Ala Leu Asp Glu Glu Tyr
329          165          170          175
331 Leu Lys Val Asp Ala Gln Phe Gly Gly Ile Asp Gln Arg Lys Ile Phe
332          180          185          190
334 Thr Phe Ala Glu Lys Tyr Leu Pro Ala Leu Gly Tyr Ser Lys Arg Val
335          195          200          205
337 His Leu Met Asn Pro Met Val Pro Gly Leu Thr Gly Ser Lys Met Ser
338          210          215          220
340 Ser Ser Glu Glu Glu Ser Lys Ile Asp Leu Leu Asp Arg Lys Glu Asp
341 225          230          235          240
343 Val Lys Lys Lys Leu Lys Lys Ala Phe Cys Glu Pro Gly Asn Val Glu
344          245          250          255
346 Asn Asn Gly Val Leu Ser Phe Ile Lys His Val Leu Phe Pro Leu Lys
347          260          265          270
349 Ser Glu Phe Val Ile Leu Arg Asp Glu Lys Trp Gly Gly Asn Lys Thr
350          275          280          285
352 Tyr Thr Ala Tyr Val Asp Leu Glu Lys Asp Phe Ala Ala Glu Val Val
353          290          295          300
355 His Pro Gly Asp Leu Lys Asn Ser Val Glu Val Ala Leu Asn Lys Leu
356 305          310          315          320
358 Leu Asp Pro Ile Arg Glu Lys Phe Asn Thr Pro Ala Leu Lys Lys Leu
359          325          330          335
361 Ala Ser Ala Ala Tyr Pro Asp Pro Ser Lys Gln Lys Pro Met Ala Lys
362          340          345          350
364 Gly Pro Ala Lys Asn Ser Glu Pro Glu Glu Val Ile Pro Ser Arg Leu
365          355          360          365
367 Asp Ile Arg Val Gly Lys Ile Ile Thr Val Glu Lys His Pro Asp Ala
368          370          375          380
370 Asp Ser Leu Tyr Val Glu Lys Ile Asp Val Gly Glu Ala Glu Pro Arg
371 385          390          395          400
373 Thr Val Val Ser Gly Leu Val Gln Phe Val Pro Lys Glu Glu Leu Gln
374          405          410          415
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VERIFICATION SUMMARY

DATE: 04/11/2001

PATENT APPLICATION: US/09/813,718

TIME: 17:38:25

Input Set : A:\Pto.da

Output Set: N:\CRF3\04112001\I813718.raw

L:11 M:270 C: Current Application Number differs, Replaced Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/813,718

DATE: 04/05/2001
TIME: 08:08:35

Input Set : A:\tsri-8170.txt
Output Set: N:\CRF3\04052001\I813718.raw

**Does Not Comply
Corrected Diskette Needed**

3 <110> APPLICANT: Schimmel, Paul
4 Wakasugi, Keisuke
6 <120> TITLE OF INVENTION: Human Aminoacyl-tRNA Synthetase Polypeptides Useful For
7 The Regulation of Angiogenesis
9 <130> FILE REFERENCE: 00-221
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/813,718
C--> 12 <141> CURRENT FILING DATE: 2001-03-21
14 <160> NUMBER OF SEQ ID NOS: 58
16 <170> SOFTWARE: PatentIn Ver. 2.0

ERRORED SEQUENCES

3151 <210> SEQ ID NO: 58
3152 <211> LENGTH: 5
3153 <212> TYPE: PRT
3154 <213> ORGANISM: Homo sapiens
3156 <400> SEQUENCE: 58
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VERIFICATION SUMMARY

DATE: 04/05/2001

PATENT APPLICATION: US/09/813,718

TIME: 08:08:36

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L:11 M:270 C: Current Application Number differs, Replaced Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:3163 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:58

M:332 Repeated in SeqNo=58